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APPLICATION NO.	FILING DAT	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/768,072	01/23/2001		Liam B. Quinn	M-9137 US	2497
7590 01/13/2005			EXAMINER		
David L. Combs				PAN, YUWEN	
Haynes and Boone, LLP 901 Main Street				ART UNIT	PAPER NUMBER
Suite 3100				2682	
Dallas, TX 75202-3789				DATE MAILED: 01/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/768,072	QUINN ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication	Yuwen Pan	2682				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 Oc	ctober 2004.					
	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4)  Claim(s) 1-15,17 and 19-21 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-15, 17 and 19-21 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	- · · · · · · · · · · · · · · · · · · ·	• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on Noed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  S. Retent and Trademock Office.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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## Response to Arguments

Applicant's arguments filed 10/26/04 have been fully considered but they are not persuasive. The applicant amends claims 1, 14 and 15 by add a new limitation "by the computing system's operating system" in order to overcome the previous rejection, filed on 7/19/04, and argues that prior art of records do not teach the newly added limitation. The examiner respectfully disagrees because Rabe clearly teaches that both transceivers are controlled by a controller. And the controller is operated on the software that is saved in the memory of the controller (see figure 1 and column 3 and lines 50-column 4 and line 12). Furthermore, the applicant argues that the combinations of the prior arts are improper and arise solely from hindsight base on the invention without any showing of suggestion, incentive or motivation in any of the references for the combinations. The examiner respectfully disagrees because the MPEP provides in 2143.01: The court also rejected the notion that "an express written motivation to combine must appear in prior art references... In Ruiz v. A.B. Chance Co. 357 F.3d 1270. 69 USPQ2d 1686 (Fed. Cir. 2004). In light of foregoing, the previous rejection stands.

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1, 2, 4, 8-11, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaisanen et al (US006560443B1) in view of Rabe et al (US006138010A).

Per claim 1, Vaisanen discloses a portable computing system with selectable transceiver switching (see column 1 and line 8-14) comprising:

A set of one or more transceivers, each of the transceivers with a unique communication protocol (see column 3 and line 61-column 4 and line 29),

A switch capable of differentiating communication signals and determining and choosing an appropriate transceiver from the set of transceivers to communicate for the computing system (see figure 1, column 6 and lines 36-53);

A multi-band antenna capable of receiving and transmitting varying frequency signals to the chosen transceiver (see column 6 and lines 54-65); and

Means for prioritizing selection of a type of communication technology (see column 5 and lines 14-26).

Vaisanen doesn't explicitly teach that the transceiver preference being set through software interface, by the computing system's operating system, with the switch.

Rabe teaches that the switch between two transceivers is controlled by wireless switch software by the computing system's operating system (see column 3 and line 51-column 4 and line 12).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Rabe with Vaisanen such that it is fast and easy to regular switching function between two transceivers.

Per claim 2 and 4, Vaisanen doesn't disclose that the switch is a zener diode or a current limiter device that differentiates upon power transmission. The examiner takes "Office Notice" that it is notoriously well known in the art to utilize a zener diode as a switch, in order to activate or deactivate a transmit mode.

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to utilize a zener diode as a switch such that a transmit mode would be selected or deselected based on the input voltage.

Per claims 8-10, Rabe further teaches that selection of a transceiver is performed by a software driver with a higher level protocol stack and the software driver is instructed by a set of software application of the portable computer system (see column 4 and line 1- 35).

Per claim 11, Vaisanen further discloses the set of transceiver and the switch are integrated into a circuit card (see figure 4 and column 8 and lines 38-60).

3. Claims 3, 5-7, 12-15, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaisanen et al (US006560443B1) and Rabe et al (US006138010A) as applied to claim 1 above, and further in view of Dvorkin et al (US006249686B1).

Per claim 3, combination of Vaisanen and Rabe doesn't teach an active power sensor device. Dvorkin discloses an active power sensor device (see figure 1 and item 78, column 2 and lines 33-47). It would have been obvious to one ordinary skill in the art at the time the invention was made to enclose the active power sensor device such that adequate signal strength would be implemented.

With respect to claims 5-7, Dvorkin further discloses a lookup table that associated transmission power with each of the transceivers, whereby the switch selects a transceiver from

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the set of transceivers when a certain power state in the lookup table is detected and the switch selects a transceiver based on a transmitted or received power (see column 2 and lines 1-47).

With respect to claims 12 and 13, Vaisanen further discloses the circuit card connects to a system board of the portable computer system and the circuit card is a mini PCI card (see column 5 and lines 35-55).

Per claims 14 and 15, 19-21, Dvorkin discloses a method of switching between a set of one or more transceivers within a portable computing system (see column 1 and lines 7-20) comprising:

Looking up in a state table corresponding power and frequency values (see column 1 and line 64-column 2 and line 15)

Comparing the characteristic of a signal received signal to the corresponding power and frequency value, and

Selecting a transceiver board capable of processing the received signal (see column 2 and lines 1-26).

It is inherent that the frequency and power of transmitting signal would be adjusted to corresponding receiving signal such that two-way communication is completed within in the same mode and a switching functionality must be programmed within a chip or a processor, viz. by creating a user interface, the software, to further monitor and control the selection of multimode.

Dvorkin doesn't disclose that means for prioritizing selection of a type of communication technology and that the transceiver preference being set through software interface by the computing system's operating system, with the switch.

Vaisanen lucidly teaches means for prioritizing selection of a type of communication technology (see column 5 and lines 14-26).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Vaisanen with Dvorkin's device such that the mobility of the portable computing device is enhanced.

Rabe teaches that the switch between two transceivers is controlled by wireless by the computing system's operating system, switch software (see column 3 and line 51-column 4 and line 12).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Rabe with Vaisanen such that it is fast and easy to regular switching function between two transceivers.

#### Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Yuwen Pan whose telephone number is 703-305-7372. The

examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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